

Jc926 U.S. PTO

09/01/00

UTILITY PATENT APPLICATION TRANSMITTAL

(Only for new nonprovisional applications under 37 CFR 1.53(b))

APPLICATION ELEMENTS

See MPEP Chapter 600 concerning utility patent application contents.

Attorney Docket No. 8241

First Inventor or Application Identifier

Karen A. Kreutz

Title

Feminine Hygiene Kit

Express Mail Label No.

EJ814913319US

Assistant Commissioner for Patents
 Box Patent Application
 Washington, D.C. 20231

1. ☒ * Fee Transmittal Form (e.g., PTO/SB/17)
 (Submit an original, and a duplicate for fee processing)

2. ☒ Specification Total Pages [19]

(preferred arrangement set forth below)

- Descriptive Title of the Invention
- Cross References to Related Applications
- Statement Regarding Fed sponsored R&D
- Reference to Microfiche Appendix
- Background of the Invention
- Brief Summary of the Invention
- Brief Description of the Drawings (if filed)
- Detailed Description
- Claim(s)
- Abstract of the Disclosure

3. ☒ Drawing(s) (35 USC 113) Total Sheets [6]

4. Oath or Declaration Total pages ☐

- a. ☐ Newly executed (original or copy)
- b. ☐ Copy from a prior application (37 CFR 1.63(d))
 (for continuation/divisional with Box 16 completed)

i. ☐ **DELETION OF INVENTORS**

Signed statement attached deleting
 inventor(s) named in the prior
 application, see 37 CFR §§1.63(d)(2) and
 1.33(b).

* NOTE FOR ITEMS 1 & 13: IN ORDER TO BE ENTITLED TO PAY
 SMALL ENTITY FEES, A SMALL ENTITY STATEMENT IS
 REQUIRED (37 C.F.R. §1.27), EXCEPT IF ONE FILED IN A PRIOR
 APPLICATION IS RELIED UPON (37 C.F.R. §1.28).

5. ☐ Microfiche Computer Program (Appendix)

6. Nucleotide and/or Amino Acid Sequence Submission
 (if applicable, all necessary)

- a. ☐ Computer Readable copy
- b. ☐ Paper Copy (identical to computer copy)
- c. ☐ Statement verifying identity of above copies

ACCOMPANYING APPLICATION PARTS

7. ☐ Assignment Papers (cover sheet & document(s))

8. ☐ 37 CFR 3.73(b) Statement ☐ Power of Attorney
 (when there is an assignee)

9. ☐ English Translation Document (if applicable)

10. ☐ Information Disclosure ☐ Copies of IDS
 Statement (IDS)/PTO-1449 Citations

11. ☐ Preliminary Amendment

12. ☒ Return Receipt Postcard (MPEP 503)
 (Should be specifically itemized)

13. ☐ *Small Entity ☐ Statement filed in prior application
 Statement(s) Status still proper and desired

14. ☐ Certified Copy of Priority Document(s)
 (if foreign priority is claimed)

15. ☐ Other:

16. If a **CONTINUING APPLICATION**, check appropriate box and supply the requisite information below and in the preliminary amendment:

☐ Continuation ☐ Divisional ☐ Continuation-in-part (CIP) of prior application No. 1

Prior application information: Examiner: _____ Group/Art Unit: _____

For **CONTINUATION** or **DIVISIONAL** only: The entire disclosure of the prior application, from which a copy of the oath or declaration is supplied under Box 4b, is considered a part of the disclosure of the accompanying continuation or divisional application and is hereby incorporated by reference. The incorporation can only be relied upon when a portion has been inadvertently omitted from the submitted application parts.

17. CORRESPONDENCE ADDRESS

☐ Customer Number or Bar Code Label

(Insert Customer No. or Attach bar code label here)

or ☐ Correspondence address below

NAME	Matthew P. Fitzpatrick				
	The Procter & Gamble Company				
ADDRESS	Winton Hill Technical Center				
	6100 Center Hill Avenue				
CITY	Cincinnati	STATE	Ohio	ZIP CODE	45224
COUNTRY	U.S.A.	TELEPHONE	513-634-2479	FAX	513-634-3612

Name (Print/Type)	Matthew P. Fitzpatrick	Registration No. (Attorney/Agent)	41,751
Signature	<i>Matthew Fitzpatrick</i>	Date	9/1/00

+

Burden Hour Statement: This form is estimated to take 0.2 hours to complete. Time will vary depending upon the needs of the individual case. Any comments on the amount of time you are required to complete this form should be sent to the Chief Information Officer, Patent and Trademark Office, Washington, D.C. 20231. DO NOT SEND FEES OR COMPLETED FORMS TO THIS ADDRESS. SEND TO: Assistant Commissioner for Patents, Box Patent Application, Washington, D.C. 20231.

Under the Paperwork Reduction Act of 1995, no persons are required to respond to a collection of information unless it displays a valid OMB control number

FEE TRANSMITTAL for FY 2000 Patent fees are subject to annual revision. Small Entity payments <u>must</u> be supported by a small entity statement, otherwise large entity fees must be paid. See Forms PTO/SB/09-12. See 37 C.F.R. §§1.27 and 1.28.	Complete if Known	
	Application Number	
	Filing Date	September 1, 2000
	First Named Inventor	Karen A. Kreutz
	Examiner Name	
	Group/Art Unit	
TOTAL AMOUNT OF PAYMENT (\$)	1310.00	Attorney Docket No.. 8241

METHOD OF PAYMENT (check one)		FEE CALCULATION (continued)																																																																																																																																																																																																																					
1. <input checked="" type="checkbox"/> The Commissioner is hereby authorized to charge indicated fees and credit any over payments to: Deposit Account Number 16-2480 Deposit Account Name The Procter & Gamble Company <input checked="" type="checkbox"/> Charge Any Additional Fee <input type="checkbox"/> Charge the Issue Fee Set in Required Under 37 C.F.R. §§1.16 and 1.17 of the Notice of Allowance		3. 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SUBMITTED BY			Complete (if applicable)	
Name (Print/Type)	Matthew P. Fitzpatrick	Registration No. (Attorney/Agent)	41,751	Telephone (513) 634-2479
Signature	<i>Matthew P. Fitzpatrick</i>		Date	Sept. 1, 2000

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FEMININE HYGIENE KIT

KAREN A. KREUTZ

LISA A. MACKAY

DONNA HILL

THOMAS W. OSBORN, III

FIELD OF THE INVENTION

10 This invention relates to feminine hygiene kits. More particularly, the invention relates to improved tampon kits designed for females first learning to use tampons. These kits provide an enhanced first-time usage experience which increases the acceptance of tampon use and makes repeat usage significantly more likely than if first time tampon use is attempted without such kits.

15 **BACKGROUND OF THE INVENTION**

A wide variety of absorbent catamenial tampons have long been known in the art. Most currently commercially available tampons are made from a tampon pledget which has been compressed into a substantially cylindrical form. Tampon pledgets of a variety of types and constructions have been described in the art. Prior to compression, the pledget may be rolled, spirally wound, folded, or assembled as a rectangular pad of absorbent material. Tampons made from a generally rectangular pledget of absorbent material as well as tampons made from rolled absorbent material have been popular and successful in the market. The absorbent catamenial tampons now in use typically comprise absorbent members which are compressed to a generally cylindrical or "bullet" shaped form.

First time use of these currently available tampons is often a very difficult and traumatic experience especially for a young woman or girl. The insertion process is often painful and cannot easily be accomplished because she may not be

sufficiently familiar with her body. First time trying of tampons may also be messy because the user is usually menstruating. The additional time needed to insert a tampon for the first time during such menstruation has been found to be a source of anxiety among many inexperienced tampon users.

5 Practicing tampon insertion during non-menstrual times has not been practical for several reasons. Currently available absorbent tampons are not designed to be worn during non-menstrual times in a woman's cycle and such use would not be in accordance with labeling instructions for these tampons. Additionally, removal of a dry or nearly dry tampon is quite uncomfortable as the
10 absorbent material sticks to the vaginal tissues causing pain.

 Because of these difficulties, tampon usage has often required a significant degree of perseverance during the learning process. This learning process is often associated with an underlying fear of a painful or uncomfortable experience. It has been found during development of the present invention that many women do not
15 become regular tampon users because of the difficulties associated with the learning process. This is so even though many of these same women indicate a willingness or desire to use tampons because of the advantages such products offer these women over other forms of menstrual protection.

 A need, therefore, exists to provide products which may be used by first time
20 or novice tampon users. These products ideally should facilitate establishment of an insertion routine that a given user finds comfortable in a minimum amount of time and with little or no discomfort during this learning process.

 Some attempts have been made in the prior art to provide tampon kits. For example, U.S. Patent 5,827,251 issued to Moder et al. describes generally a feminine
25 sanitary protection kit having a pantiliner and a vaginal insertion device. A tampon may be included with the packages described in the Moder et al. patent. The packages of products described in Moder et al. however, are unsuitable for use as a tampon learner kit of the present invention. Moder et al. describes only tampons of the "regular," "super," and "super plus" absorbency ranges. For reasons more fully
30 described herein, these higher absorbency tampons are particularly unsuited for preferred learner kits of the present invention. Additionally, the products described in the Moder et al. patent fail to provide kits which have some of the learning and insertion aids of preferred kits of the present invention such as a mirror, an insertion guide, or a bonus product offering.

An attempt in the prior art to provide an insertion guide is described generally in U.S. Patent 6,071,259 issued to Steiger et al. The Steiger et al. patent generally describes an optional inserter for digital tampons which is described as useful as a training device for new users. The device described in the Steiger et al. reference, however, lacks the advantages of the insertion guide of the present invention. For example, the Steiger et al. device provides no assistance to a user in properly orienting the tampon for insertion. In other words, no assistance is provided by way of assisting the user in achieving an optimal insertion angle, depth, etc.

SUMMARY OF THE INVENTION

This invention relates to feminine hygiene kits and training tampon devices. The feminine hygiene kits of the present invention are particularly suited for use as learner kits for new or novice tampon users. In one embodiment, a kit of the present invention comprises an absorbent tampon and a backup feminine protection product packaged in a common package. The absorbent tampon comprises an absorbent core and a withdrawal mechanism attached to the absorbent core. The absorbent core has a syngina absorbent capacity of less than or equal to about 6 grams. In preferred embodiments, the backup feminine protection product may comprise a pantiliner, a sanitary napkin, or an absorbent interlabial device. In particular preferred embodiments, the backup feminine protection product may comprise a pantiliner having a caliper of less than or equal to about 3 mm.

This invention relates to tampon kits and training tampon devices. In one embodiment, a kit of the present invention comprises an absorbent tampon and a pantiliner packaged in a common package. The absorbent tampon comprises an absorbent core and a withdrawal mechanism attached to the absorbent core. The absorbent core has a syngina absorbent capacity of less than six grams. A kit of the present invention may preferably contain a mirror with the tampon and backup feminine protection product.

In an additional embodiment, a kit of the present invention comprises an absorbent tampon and a mirror. Preferably, kits of the present invention may comprise a tampon insertion guide. Preferably these kits may also comprise a vaginal lubricant. Kits of the present invention may preferably also comprise an insertion glove. Such an insertion glove may preferably also be used as a disposal

wrapper for the tampon. The feminine hygiene kit may preferably contain a finger cover. This finger cover may also preferably be also used as a disposal wrapper for the tampon. Preferably, kits of the present invention may also comprise a bonus product offering. Such a bonus product offering may include candy or a bath product. Such a bonus product offering may also include a coupon, including a coupon which may be redeemed in conjunction with women's health services.

A kit of the present invention may also preferably contain an instruction booklet. Preferably, such an instruction booklet comprises instructions which assist a consumer in creating a tampon usage system.

In an additional embodiment, the present invention comprises a training tampon. The training tampon is generally cylindrically shaped and has an insertion end and a withdrawal end. The tampon has a withdrawal mechanism attached to the withdrawal end of the tampon device. The tampon device is configured for insertion into the vaginal canal of a female wearer. The tampon device is substantially non-absorbent. In preferred embodiments, the non-absorbent tampon may be made of a material selected from the group consisting of: teflon, polyethylene, polypropylene, and polyester. Preferably, the training tampon may be housed in an applicator comprising a holder tube and a plunger tube. The holder tube and the plunger tube are telescopically disposed relative to one another. The training tampon may also preferably comprise a vaginal lubricant disposed on the outer surface of the tampon.

Another embodiment of a kit of the present invention may comprise a training tampon in combination with a vaginal lubricant.

BRIEF DESCRIPTION OF THE DRAWINGS

While the specification concludes with claims particularly pointing out and distinctly claiming the subject matter which is regarded as forming the present invention, it is believed that the invention will be better understood from the following description taken in conjunction with the accompanying drawings, in which:

FIG. 1 is a feminine hygiene kit of the present invention.

FIG. 2 is a top plan view of a pantiliner which may be incorporated into a kit of the present invention.

FIG. 3 is a cross sectional view taken along line 3-3 of the pantliner of FIG. 2.

FIG. 4 is an absorbent tampon which may be incorporated into a kit of the present invention.

5 FIGS. 5A-5G show additional items which may be incorporated into a kit of the present invention.

FIG. 6 is a side view of a tampon insertion guide which may be incorporated into a kit of the present invention.

FIG. 7 is a top down view of a tampon insertion guide shown in FIG. 6.

10 FIG. 8 is a cross-sectional view taken along line 8-8 of the tampon insertion guide shown in FIG. 6.

FIG. 9 is a non-absorbent tampon device which may be used as a training tampon of the present invention.

15 FIG. 10 is a tube and plunger applicator housing the non-absorbent training device shown in FIG. 9.

DETAILED DESCRIPTION OF THE INVENTION

20 This present invention is directed to feminine hygiene kits and training tampons. The feminine hygiene kits of the present invention are particularly suited for use as learner kits. These kits provide an enhanced first-time tampon usage experience which increases the acceptance of tampon use and makes repeat usage significantly more likely than if first time tampon use is attempted without such kits.

25 FIG. 1 shows one embodiment of a feminine hygiene kit 20 of the present invention. In its simplest form, this embodiment of the tampon kit 20 may preferably be thought of as an outer package 22 housing the individual components of the kit. Preferably, the contents of the kit 20 comprise at least one tampon 24 and at least one backup feminine protection product, such as pantliner 26. The tampon 24 and the pantliner 26 may be packaged together in the outer package 22 in any suitable manner. For example, in the preferred embodiment shown in FIG. 1, the
30 outer package 22 has a "flip top" lid 28 with a sloped bottom surface 30. Neither of

these features is necessary, but such allow the different products to be arranged in a staggered configuration for easy removal of the desired product type. The outer package 22 may generally be in the shape of a box typically used for crayon packaging. As noted, this configuration allows the various individual items to be grasped easily and removed.

The outer package 22 may be re-closeable. Preferably, the outer package 22 is configured such that at least one of type of item which comprises the kit 20 is simultaneously visible and easily graspable by a user. The outer package 22 need not have any particular design feature, however, and may simply consist of a convenient common package in order to contain the items of the kit 20 together for single unit sale.

In the kit shown in FIG. 1, the individual components of the kit 20, such as tampon 24 and pantiliner 26 may each be placed in their own compartment contained within the outer package 22. It is not necessary that such compartments be provided, however, and the components may simply reside within a common outer package. The compartments if provided may take the form of dividers, sleeves within the outer package 22, or any other suitable spacing means. The outer package 22 may be manufactured from cardboard, a polymer bag or film, shrink wrap, or any other suitable material conventionally used for consumer product packaging. Such methods of packing multiple consumer items are generally within the ability of one of ordinary skill in the art. Preferably, the packing is selected to maintain as clean and hygienic condition of the individual products as is possible.

Attention is now turned to the individual items which may comprise a feminine hygiene kit of the present invention. It is to be noted that not all embodiments of the present invention must have an items of each of the types specified and described herein. The various items may be mixed and matched in various combinations in order to obtain a kit of the present invention as described in the present specification and appended claims.

FIG. 2 shows a top plan view of a preferred pantiliner 26 which may be incorporated into the kit 20 of the present invention. Any suitable conventional pantiliner may be used in the kit 20 of the present invention. The individual components of the preferred pantiliner 26 of the present invention are more clearly seen in FIG. 3. As shown in FIG. 3, the preferred pantiliner 26 has a liquid pervious topsheet 40, a liquid impervious backsheet 42, and an absorbent core 44 positioned

between the topsheet 40 and backsheet 42. The pantiliner 26 shown has a “dog bone” shape, but may also have an “hourglass” shape, a “racetrack” shape, an oval shape, or any other suitable shape.

The pantiliner 26 shown in FIGS. 2-3 is preferably releaseably adhered (such as with pressure sensitive adhesive 52) to and wrapped with a release wrapper 32. Preferably, the topsheet is a “hybrid” type topsheet 40 comprising an apertured formed film 46 and nonwoven 48 layers. A suitable pantiliner incorporating such a hybrid topsheet is described in PCT Publication WO 93/09744, published May 27, 1993, in the name of Sugahara, the entire disclosure of which is hereby incorporated by reference.

Preferably, the apertured formed film covers the entire body facing surface of the pantiliner. The nonwoven layer may preferably comprise two strips 49 positioned laterally outboard of a central zone 51. Such central zone 51 has the apertured form film layer directly exposed to the body facing surface of the pantiliner. These apertured form film layers and nonwoven are preferably joined by discrete bonds such as bonds 50. Of course, a hybrid topsheet configuration is not necessary, and a suitable topsheet may be made entirely from a suitable formed film, an apertured or non-apertured nonwoven web, a woven web, or any other suitable body side liner.

The pantiliner 26 may be preferably packaged in a tri-folded release paper wrapper configuration which conserves space within the outer package 22 of the kit 20 of the present invention. An example of folded release paper wrapper configuration is described in U.S. Patent 4,556,146 issued to Swanson et al., the entire disclosure of which is hereby incorporated by reference. A suitable pantiliner for use in the kit of the present invention is manufactured by Procter & Gamble GmbH of Crailsheim, Germany, a subsidiary of The Procter & Gamble Company of Cincinnati, Ohio, and sold under the name ALLDAYS Breathable Singles. Additionally, any of the ALLDAYS pantliners manufactured by Procter & Gamble are suitable for inclusion in kits of the present invention. Preferably, pantliners included have a caliper of less than or equal to about 3 mm. A suitable method of determining all caliper measurements given herein is using an AMES gauge with a 0.25 psi (1.7kPa) load and a 0.96 inch (2.44 cm) diameter foot. One of skill in the art will recognize that if a 0.96 inch (2.44cm) diameter foot is not appropriate for a particular size of sample, the foot size may be varied while the load on the gauge is varied accordingly to maintain a confining pressure of 0.25 psi (1.7 kPa).

The kit 20 of the present invention also preferably includes an absorbent tampon 24 such as tampon 24 shown in FIG. 4. As used herein the term "tampon" refers to any type of absorbent structure which is inserted into the vaginal canal or other body cavities for the absorption of fluid therefrom.

5 Typically, tampons are constructed from an absorbent material which has been compressed in either the radial direction, the axial direction, or both in order to provide a tampon which is of a size and stability to allow insertion within the vagina or other body cavity.

10 The primary absorbent member 60 (sometimes also referred to as the "absorbent core") of the tampon 24 shown in FIG. 4 has an insertion end 62 and a withdrawal end 64. The primary absorbent member 60 may be compressed into a generally cylindrical configuration in the radial direction or in both the radial and axial directions. While the primary absorbent member 60 is preferably compressed into a substantially cylindrical configuration, other shapes are also possible. These
15 may include shapes having a cross section which may be described as rectangular, triangular, trapezoidal, semi-circular, or other suitable shapes. A withdrawal mechanism such as withdrawal cord 67 is preferably attached to the primary absorbent member 60.

20 The tampon prior to compression may be any suitable shape, size, material, or construction. In the embodiment shown in FIG. 4, the tampon is formed from a batt of absorbent material which is a generally rectangular pad of absorbent material.

While the tampon 24 shown in FIG. 4 was formed from a generally rectangular absorbent material, other shapes such as trapezoidal, triangular, hemispherical, and chevron shaped are also acceptable. The tampon 24 may be a
25 laminar structure comprised of integral or discrete layers. The tampon may comprise outer layers and at least one intermediate layer positioned between the outer layers. In other embodiments, the pad need not have a layered structure at all. The tampon may comprise a folded structure, may be rolled, may comprise a "petal" structure or any other of the structures which are known in the art with respect to
30 tampon pledgets. The tampon may include a mass of secondary absorbent material 65 or "tail" such as that described in co-pending and commonly assigned U.S. Application Serial No. 09/309,467, filed on May 10, 1999, the entire disclosure of which is hereby incorporated by reference.

The tampon 24 may be constructed from a wide variety of liquid-absorbing materials commonly used in absorbent articles such as rayon, cotton, or comminuted wood pulp which is generally referred to as airfelt. Examples of other suitable absorbent materials include creped cellulose wadding; meltblown polymers including coform; chemically stiffened, modified or cross-linked cellulosic fibers; 5 synthetic fibers such as crimped polyester fibers; peat moss; tissue including tissue wraps and tissue laminates; or any equivalent material or combinations of materials, or mixtures of these. Preferred absorbent materials comprise cotton, rayon (including tri-lobal and conventional rayon fibers, and needle punched rayon), 10 folded tissues, woven materials, nonwoven webs, synthetic and/or natural fibers.

A suitable process for forming the tampon shown in FIG. 4 is known as carding. Other techniques include as airlaying, wetlaying, or other known techniques. The tampon may preferably be constructed from cotton fibers, rayon fibers, or a blend of these. Depending on the desired absorbency desired in the 15 finished tampon the basis weight of the absorbent material may vary. The United States Food and Drug Administration (FDA) has a set of absorbency standards used throughout the tampon industry. According to these standards, tampons with an absorbency of between 12-15 grams are designated as "super plus." Tampons with an absorbency of between 9-12 grams are designated as "super." Tampons with an 20 absorbency of between 6-9 grams are designated as "regular." Tampons with an absorbency of less than 6 grams are designated as "junior" absorbency.

All of the absorbency ranges given herein are those as measured by the syngina test as mandated by the FDA. Preferably, the tampon 24 of the present invention is of the "junior" absorbency type. This absorbency level is also 25 sometimes referred to as "lites" or "light absorbency." A suitable tampon of this type is manufactured and sold by the Procter & Gamble Company of Cincinnati, Ohio as TAMPAX LITES. Such a tampon may preferably have a basis weight of about 438 g/m², and be constructed from a rectangular absorbent pad comprising 100% cotton. The pad may have an initial length of about 76 mm, and an initial width of about 45 30 mm prior to compression. The absorbent pad is compressed to its final form, such as that shown in FIG. 4 by temperature and pressure using techniques that are well known in the art.

Tampons of the higher absorbency ranges such as regular, super, and super plus, have previously been disclosed as being packaged with pantliners such as 35 those which may be included in the kit 20 of the present invention. Nevertheless, it

has not been known to package tampons having an absorbency of less than about 6 grams as measured by the syngina test in kits with pantliners for use as a learner's kit. The use of low absorbency tampons (i.e. below 6 grams, or "junior" absorbency) offers a variety of non-obvious advantages, particularly for the novice user. Therefore, these "junior" absorbency tampons are particularly suited for inclusion in kits of the present invention.

It has been found during development of the present invention that first time or novice tampon users are often highly concerned about accidental soiling and of an unpleasant or uncomfortable insertion experience. Because of the concern of accidental soiling, first time and novice users often tend to try the use of a tampon at "low risk" times in their cycle. Such a time typically includes days when menstrual flow is light such as when it is first starting. Additionally, because of the fear of soiling or pre-mature leakage, such users may also tend to seek a higher absorbency product such as a "super," "super plus" or even a "regular" absorbency tampon. Such a combination of light flow and higher absorbency often leads to an uncomfortable insertion experience, however.

If the tampon is not saturated when it is removed, the dry fibers of the tampon have a tendency to adhere to the naturally moist surfaces of the vaginal canal. In such a situation, removal of the tampon is quite uncomfortable. Surprisingly, it has been found that discomfort associated with the removal of one tampon will contribute to an uncomfortable insertion experience with respect to insertion of a replacement tampon. This is particularly true because novice and first time users often have a tendency to remove the tampon shortly after insertion in order to minimize the risk of premature leakage or accidental soiling.

The novice or first time user, then, in order to minimize the risk of leakage, tends to want to use more absorbency than might be necessary at the time when flow may be the lightest for her. This is particularly true for teens or young users who may tend to have lighter flow and smaller bodies in the first instance.

The learner's kit of present invention, by providing a tampon having an absorbency in the range of less than or equal to about 6 grams offers several advantages. Firstly, such tampons because they are less absorbent than other tampons typically require less absorbent material, and are therefore generally smaller than higher absorbency tampons. Such smaller size contributes to insertion and removal comfort. Additionally, because they do not remain "dry" for as long as

higher absorbency tampons, they will tend to be more comfortable upon removal (and even insertion) for newer users who will tend to use the kit of the present invention during times of low flow.

5 The backup feminine protection product, such as a pantiliner, which may be provided with the kit of the present invention is included in order to address the concern which the novice or first time tampon user may have with using low absorbency tampons as well as to provide additional re-assurance. For example, a pantiliner, such as pantiliner 26 provides reassurance to the user that a junior absorbency tampon may be used without fear of leakage or soiling because the
10 pantiliner is available to absorb any flow which may accidentally leak past the tampon. This also provides some comfort to the new user who may take more time than an experienced tampon user during the insertion process. The pantiliner reduces the anxiety that leakage may occur during the time the user is trying to get the tampon inserted properly.

15 A backup feminine protection product also allows for new users to feel comfortable using lower absorbency tampons during times of moderate menstrual flow. Therefore, in preferred executions of the kit of the present invention, the kit includes instructions (such as within an instruction booklet discussed in more detail below) suggesting that the user first insert the included tampons during times of
20 moderate menstrual flow. Such a use will result in a more comfortable insertion experience, and therefore, encourage repeat usage. The provision of the backup product increases the likelihood that such an instruction suggestion will be complied with by users of the kit.

25 Another benefit of a backup feminine protection product such as pantiliner 26 is that encourages the first time or novice user to wear a tampon of the kit for a sufficient length of time. In the absence of such a backup product, a new user may have a tendency to remove the tampon more quickly, resulting in the discomfort referenced earlier.

30 Pantliners, such as pantiliner 26 are preferred as the product form for use as the backup feminine protection product within kits of the present invention. One reason for this is that pantliners have a lower wearing awareness than other feminine protection product forms. For example, sanitary napkins, which are relatively more bulky than pantliners may tend to be noticed by a consumer during wear. This may lead a consumer to come to rely on a "reassurance" provided by

feeling the sanitary napkin. This can detract from the effectiveness of the kit as an items which assists in promoting acceptance of tampons for regular, as opposed to backup only use.

Preferred pantliners of the kit 20 of the present invention should be thin,
 5 relatively flexible, and need not be highly absorbent. Nevertheless, other types of feminine protection products may serve as the backup product of the present invention. Such product types include, sanitary napkins of both the "ultra" and regular varieties, and absorbent interlabial devices. A suitable sanitary napkin is the ALWAYS® Ultra thin Maxi sanitary napkin which is manufactured and packaged
 10 by the Procter & Gamble Company of Cincinnati, Ohio under one or more of U.S. Patents 4,342,314, 4,463,045, 4,556,146, 4,950,264, 5,009,653, 5,413,568, 5,460,623, 5,462,166, 5,569,231, and Re. 32, 649. A suitable absorbent interlabial device may be any of the devices described in such U.S. Patents as 3,983,873 and 5,762,244 or PCT Publication WO 98/57610, published on December 23,1998.

15 In addition to a pantliner 26 (or other backup feminine hygiene product) and tampon 24 described above, kits of the present invention may be provided with additional optional components designed to facilitate the tampon learning experience and tampon usage acceptance. For example, the kit shown in FIG. 1 may be provided with a mirror, such as mirror 70 shown in FIG. 5A. A mirror may be used
 20 by the user to better see the external genitalia in order to properly position the tampon for insertion. The use of a mirror to better see the body assists the user in understanding her body and often leads to a better experience in using and accepting tampons. Preferably, such a mirror should be compact so that it may be easily manipulated. A hand held mirror, especially one that may be held between the
 25 fingers of one hand is ideal for this purpose.

A tube of vaginal lubricant 72, shown in FIG. 5B, may also be included with a kit 20 of the present invention. Any suitable lubricant may be used for this purpose. Such a lubricant may be used to lubricate the tampon, the vagina, or both in order to facilitate a more smooth and comfortable insertion for the user. The
 30 lubricant need not be contained in a tube, but may be contained in any suitable container or may be already coated on the surface of the tampon. FIG. 5D shows an optional finger cover 74 in the form of a "finger glove" which may also be included. Additionally, other types of finger covers such as absorbent or non absorbent drapes may also be included. Optionally, a glove to cover the entire hand is also suitable.
 35 Such a glove, such as glove 75 (FIG. 5C) may be made of latex or other suitable

material. The finger glove 74 may be used to protect the finger while allowing the user to feel the vaginal canal with her finger in order to get a better feel for its orientation, size, etc. Either a hand glove or finger cover may also be used as a wrapper for disposal of a used tampon. Also, disposable wipes may be included in
 5 kits of the present invention. Wipes are useful as a new user may make several attempts at insertion. Additionally, a glove such as glove 75 or finger cover such as finger glove 74 may be coated with a lubricant either directly or indirectly via micro encapsulation.

It has also been found during the development of the present invention that
 10 providing positive feedback as part of the learning experience is highly effective in establishing tampon use acceptance. Therefore, the kit of the present invention may also be provided with a "bonus product offering." Such a bonus product offering may be intended to serve as a small "reward" to the consumer which she may give herself for successful tampon insertion. Such a reward product offering may be an
 15 item which is traditionally associated with feminine hygiene products, in order to enhance its value as a "reward" value. Examples of suitable bonus product offerings include candy 76 (FIG. 5E), a piece of chocolate, a bath product such a bath soap 78 (FIG. 5F), oil, or gel, a candle, or any other suitable product. Other types of offerings may be including which complement the feminine hygiene products
 20 included. Such offers may include coupons for tampons or other products which may be used once a user becomes comfortable with the tampon insertion experience and wishes to move beyond a learner type kit. Another beneficial coupon is one that could be used in conjunction with women's health services such as a gynecological exam. It will be apparent to one of skill in the art that the size and configuration of
 25 the outer packaging 22 of the kit should be adjusted accordingly to accommodate any such optional kit components which may be included.

In preferred embodiments, kits of the present invention are provided with instruction booklets 90 such as that shown in FIG. 5G. Such instruction booklets may provide general information of interest on the female anatomy, tampons, how
 30 tampons work, how to insert tampons, and related information. Preferably, the information provided is comprehensive in order to alleviate the fear of the "unknown" which many users may experience with respect to first time tampon use. In particularly preferred embodiments, the instruction booklet includes information which will assist the user in making the transition from the learner's kit to more
 35 conventional tampon products. For example, when using tampons throughout her menstrual period, a user may have to use multiple absorbencies and a junior

absorbency tampon may not always be sufficient. Therefore, the instruction booklet should assist the user in planning for the need to move to different levels of absorbency on higher flow days and as her needs dictate. Ideally, the instruction booklet should offer guidance to the user in formulating a "system" of tampon usage that is right and best for her. Such guidance could be in the form of a chart which allows the user to plot her flow on each day of her menstrual period as "light," "light to medium," "medium to heavy," and "very heavy." This chart could then be indicated as corresponding to Junior (lites), Regular, Super, and Super Plus absorbency tampons, respectively.

The instruction booklet may also be provided with information allowing a user to contact a credible source of information for additional assistance. Such information could include an "800" or other telephone number staffed with representatives who can assist a new user with using the kit of the present invention. Additionally, phone links, links to a web site, cassette, VCD, CD-ROM, video, or even a small interactive instructional device could also be included.

A kit of the present invention may also be provided with an optional tampon insertion guide 100 and example of which is shown in FIG. 6-8. A tampon insertion guide 100 may be designed to be placed against the body in the genital region. Alternatively, the guide may be used outside the body for practice use. A guide for use against the body 100 may have an opening or hole 102 which has side walls 104 which are angled and/or oriented to assist the user in achieving the correct angle of insertion of the tampon. Such an insertion guide could also be provided with a stop or other mechanism to assist a user in determining an optimal insertion depth for a tampon applicator. It has been found during development of the present invention that many first time or novice tampon users often do not insert the tampon in the optimal direction (i.e. insertion angle) and have to experiment by trial and error. The guide 100 assists the user in getting a "feel" for the proper angle of insertion in order to minimize discomfort associated with the learning process. The tampon insertion guide may be made of any suitable material such as cardboard or plastic.

In addition to the absorbent tampons described above, a kit of the present invention may also be provided with a non-absorbent "training tampon." An example of such a training tampon 120 is shown in FIG. 9. The training tampon 120 may be included as part of any of the kits previously described or may be a "stand alone" product. Preferably, the training tampon 120 resembles an absorbent tampon in size and shape as closely as possible. The training tampon 120 should be

provided with a withdrawal mechanism, such as withdrawal cord 122. Ideally, the training tampon has a smooth and lubricious surface such that it may be comfortably inserted into the vagina.

5 The training tampon is preferably non-absorbent such that it may be used during non-menstrual times in order to "practice" tampon insertion. Such non-menstrual practice reduces the anxiety associated with getting the feel of proper tampon insertion during times of actual flow and, therefore, potential leakage.

10 The training tampon 120 may be made of any suitable material including Teflon, polyethylene, and polyester. Preferably, the training tampon 120 should be flexible or pliable. The training tampon could have a soft core 124 for flexibility surrounded by an outer coating 126 for smoothness. Suitable materials for such a core might include a foam, elastomer, soft rubber, or the like. As shown in FIG. 10, the training tampon 120 may be housed in any suitable "tube and plunger" type applicator 130 or other type applicator. This allows a user to get the most realistic
15 practice with tampon insertion. Alternatively, the training tampon 120 may be inserted digitally if a user wishes to practice this method of insertion. The training tampon 120 may be, but need not be disposable. It may be designed to be washed, and/or sterilized and re-used. The training tampon may also be provided with a lubricant either already disposed on the training tampon, or packaged in a tube or
20 other suitable container with the training tampon as part of a kit.

The disclosures of all patents, patent applications (and any patents which issue thereon, as well as any corresponding published foreign patent applications), and publications mentioned throughout this patent application are hereby incorporated by reference herein. It is expressly not admitted, however, that any of the documents
25 incorporated by reference herein teach or disclose the present invention. It is also expressly not admitted that any of the commercially available materials or products described herein teach or disclose the present invention.

30 The disclosures of all patents and patent applications referred to in this specification are hereby incorporated by reference as if fully set forth herein. While particular embodiments of the present invention have been illustrated and described, it would be obvious to those skilled in the art that various other changes and modifications can be made without departing from the spirit and scope of the invention.

What is claimed is:

CLAIMS

1. A feminine hygiene kit comprising:

an absorbent tampon, said tampon comprising an absorbent core and a withdrawal mechanism attached thereto, wherein said absorbent core has a synergistic absorbent capacity of less than or equal to about 6 grams, and

a backup feminine protection product, wherein

said absorbent tampon and said backup feminine protection product are packaged in a common package.
2. The feminine hygiene kit of Claim 1 wherein said backup feminine protection product is a pantiliner.
3. The feminine hygiene kit of Claim 2 wherein said pantiliner has a caliper of less than or equal to about 3 mm.
4. The feminine hygiene kit of Claim 1 wherein said backup feminine protection product is a sanitary napkin.
5. The feminine hygiene kit of Claim 1 wherein said backup feminine protection product is an absorbent interlabial device.
6. The feminine hygiene kit of Claim 1 wherein said kit further comprises a mirror.
7. A feminine hygiene kit comprising:

an absorbent tampon, and

a mirror.
8. The feminine hygiene kit of Claim 1 or Claim 7 wherein said kit further comprises a tampon insertion guide.
9. The feminine hygiene kit of Claim 1 or Claim 7 wherein said kit further comprises a vaginal lubricant.

10. The feminine hygiene kit of Claim 1 or Claim 7 wherein said kit further comprises an insertion glove.
11. The feminine hygiene kit of Claim 10 wherein said insertion glove may also be used as a disposal wrapper for said tampon.
12. The feminine hygiene kit of Claim 1 or Claim 7 wherein said kit further comprises a finger cover.
13. The feminine hygiene kit of Claim 12 wherein said finger cover may also be used a disposal wrapper for said tampon.
14. The feminine hygiene kit of Claim 1 or Claim 7 wherein said kit further comprises a bonus product offering.
15. The feminine hygiene kit of Claim 14 wherein said bonus product offering comprises candy.
16. The feminine hygiene kit of Claim 14 wherein said bonus product offering comprises a bath product.
17. The feminine hygiene kit of Claim 14 wherein said bonus product offers comprises a coupon.
18. The feminine hygiene kit of Claim 17 wherein said coupon may be redeemed in conjunction with women's health services.
19. The kit of Claim 1 or 7 wherein said kit further comprises an instruction booklet.
20. The kit of Claim 19 wherein said instruction booklet comprises instructions which assist a consumer in creating a tampon usage system.
21. A training tampon comprising: a generally cylindrically shaped tampon device having an insertion end and a withdrawal end, and a withdrawal mechanism attached to said withdrawal end of said tampon device, wherein said tampon device is configured for insertion into the vaginal canal of a female wearer, and wherein said tampon device is substantially non-absorbent.

22. The training tampon of Claim 21 wherein said tampon device is comprised of a material selected from the group consisting of: teflon, polyethylene, polypropylene, and polyester.
23. The training tampon of Claim 21 wherein said tampon is housed in an applicator, said applicator comprising a holder tube and a plunger tube, said holder tube and said plunger tube being telescopically disposed relative to one another.
24. The training tampon of Claim 21 further comprising a vaginal lubricant disposed on the outer surface of said tampon.
25. A feminine hygiene kit, said kit comprising the training tampon of Claim 21 and a vaginal lubricant.
26. The feminine hygiene kit of Claim 1 or Claim 7 further comprising the training tampon of Claim 21.

ABSTRACT OF THE DISCLOSURE

Kits of feminine hygiene products are disclosed. In particular, kits which may be used as learner kits are disclosed. Such kits preferably include at least an absorbent tampon having an absorbency of less than or equal to about 6 grams according to the syngina test. Also included are a backup feminine hygiene article such as a pantiliner, sanitary napkin, or absorbent interlabial device. Other optional components such as a mirror, finger cover, glove, lubricant, bonus product, an instruction booklet, may also be included in the kit. Also disclosed are non-absorbent training tampons which may be used to assist a new tampon user in getting the feel for proper tampon insertion technique.

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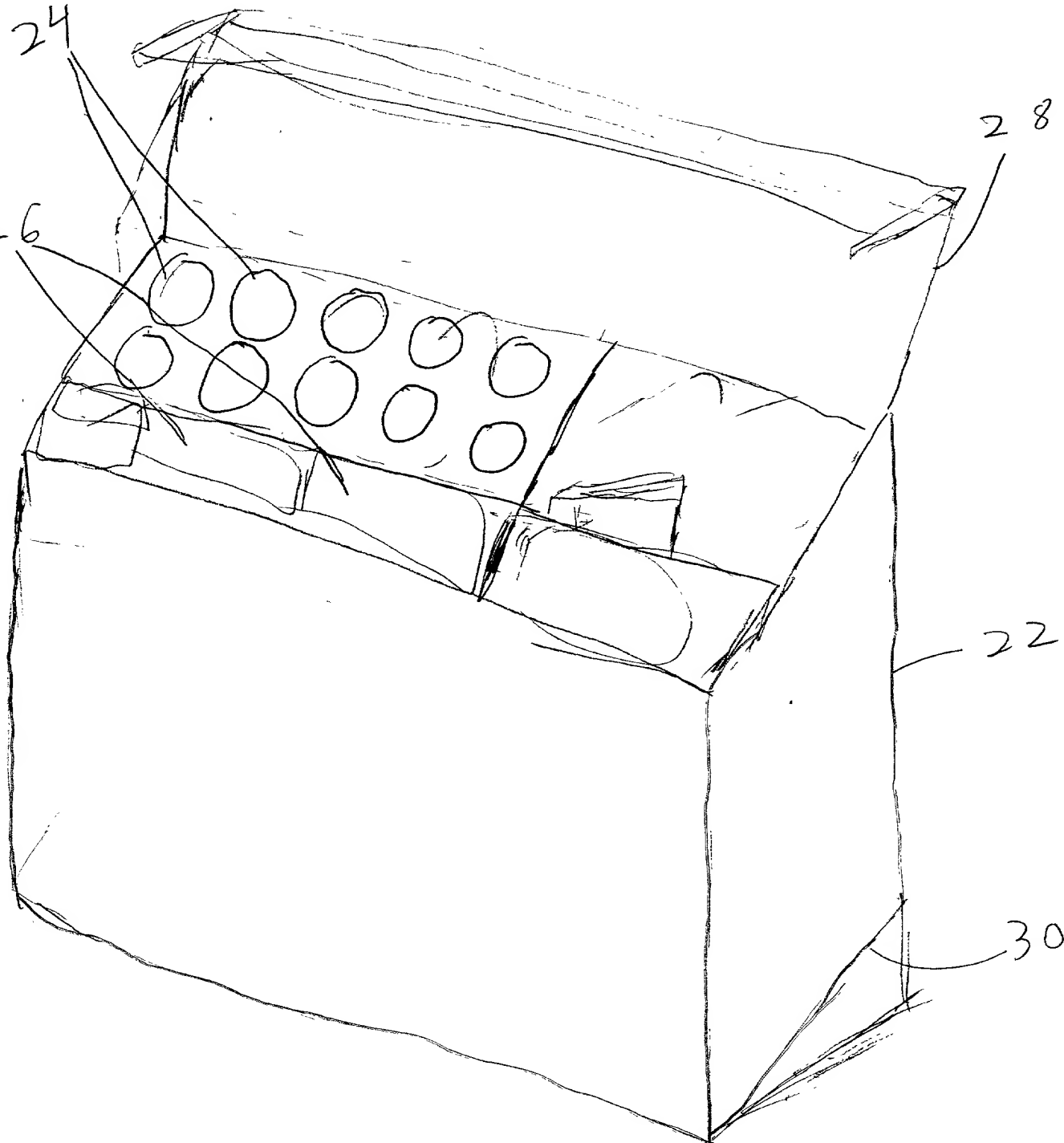
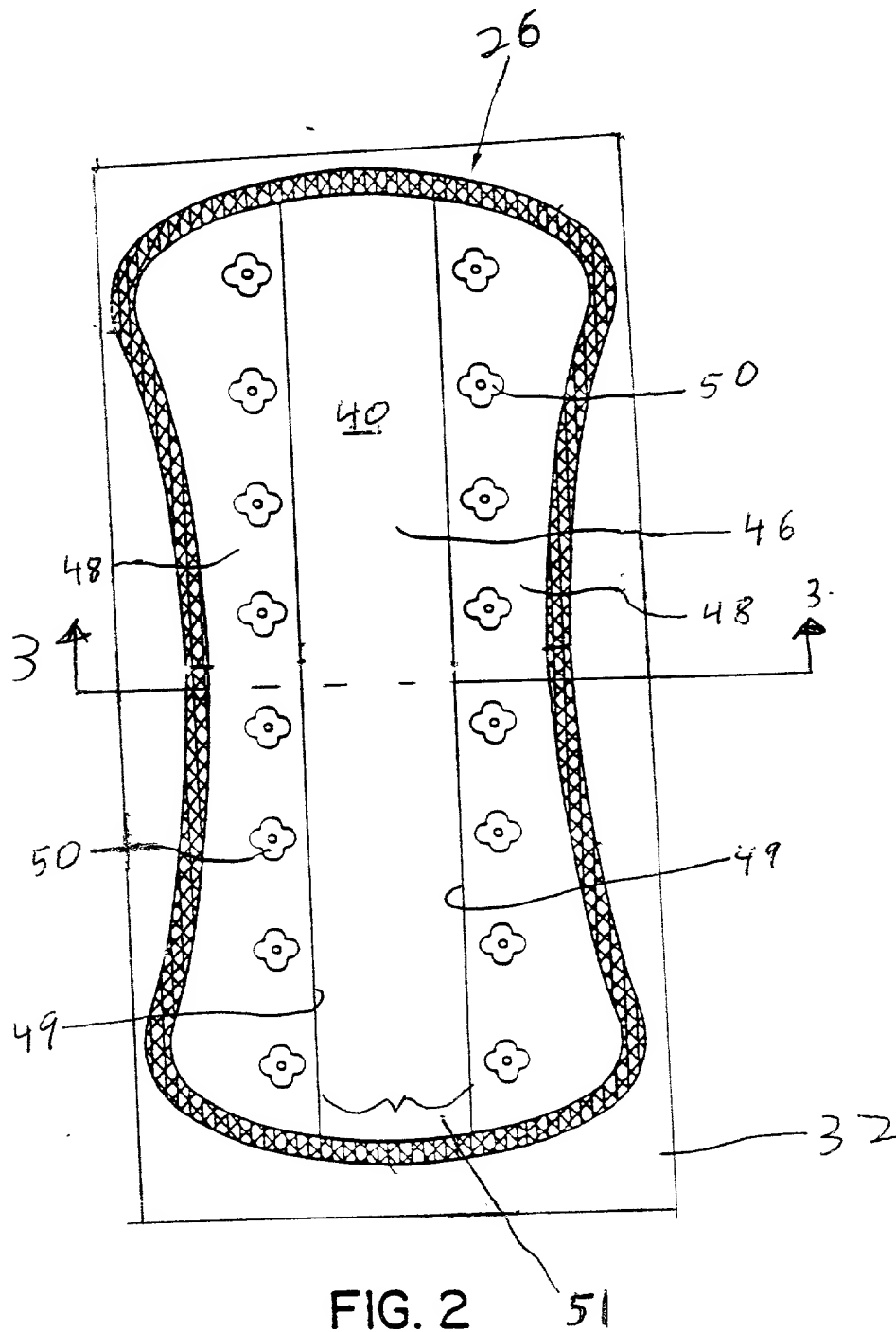


FIG. 1.

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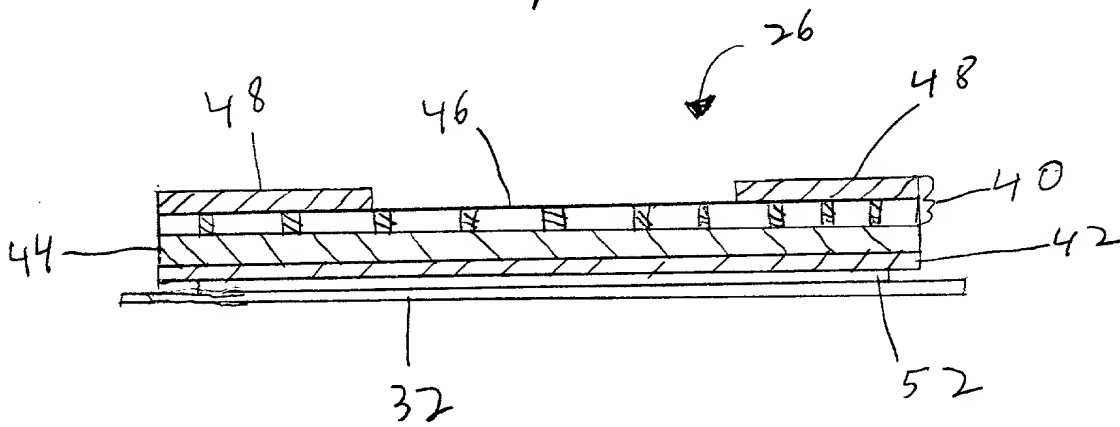


Fig. 3

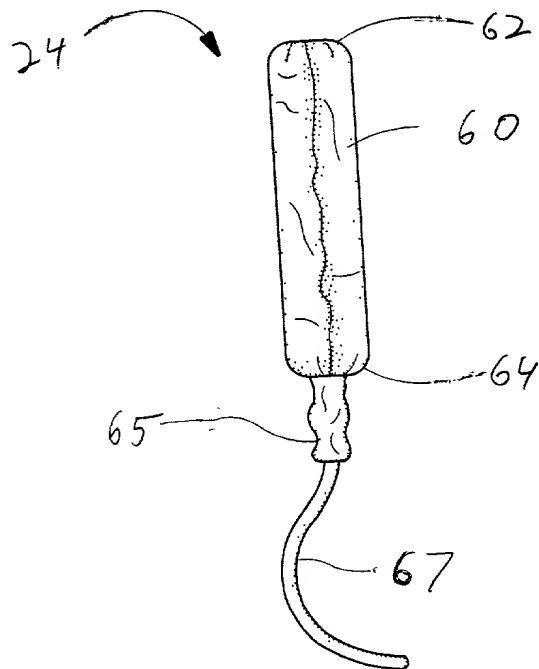


Fig. 4

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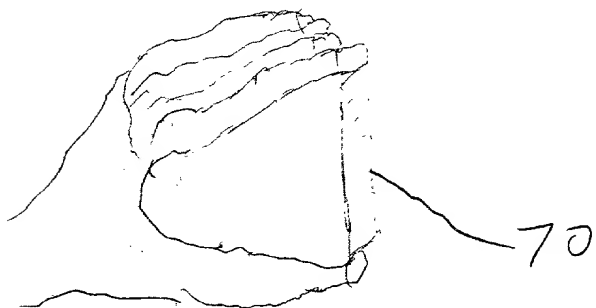


Fig. 5A



Fig. 5B

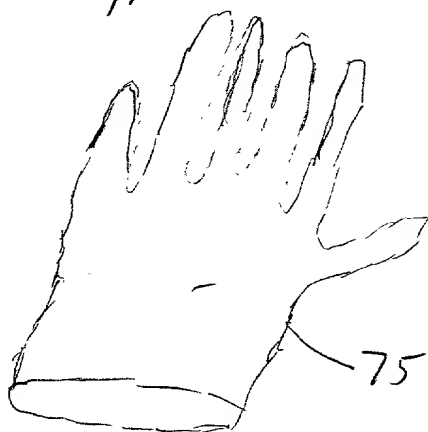


Fig 5C

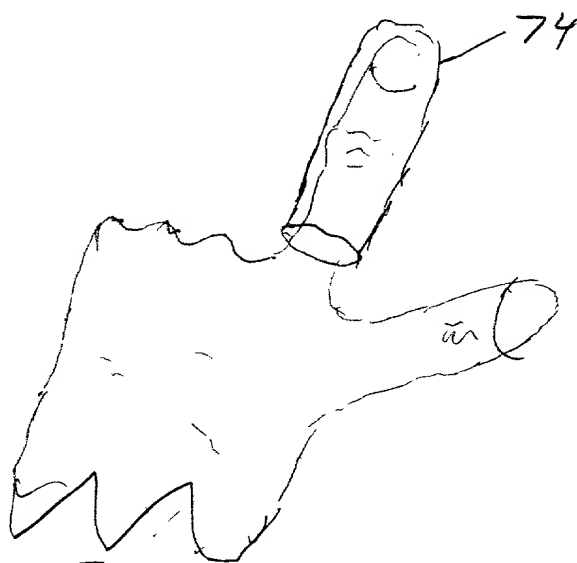


Fig. 5D



Fig. 5E



Fig. 5F

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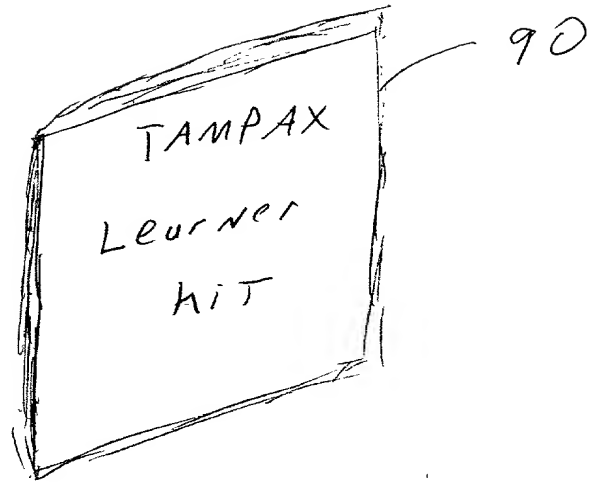


Fig. 5G

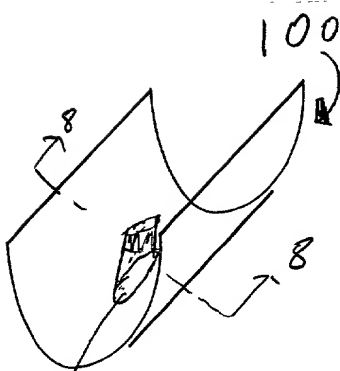


Fig. 6

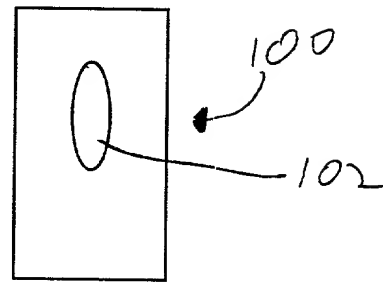


Fig. 7

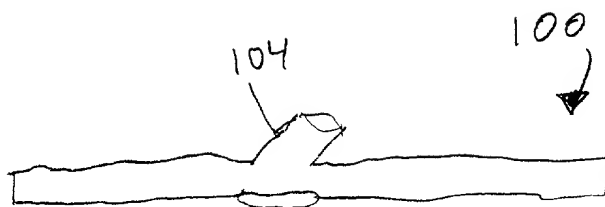


Fig. 8

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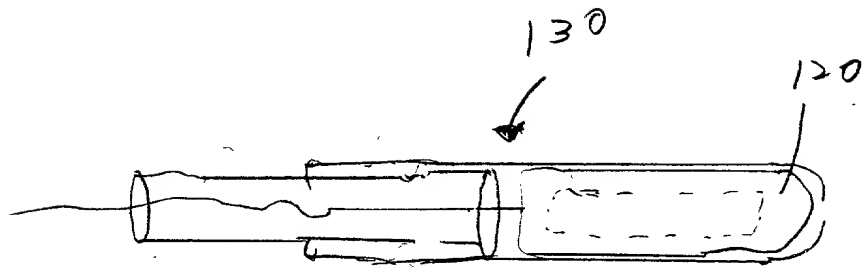
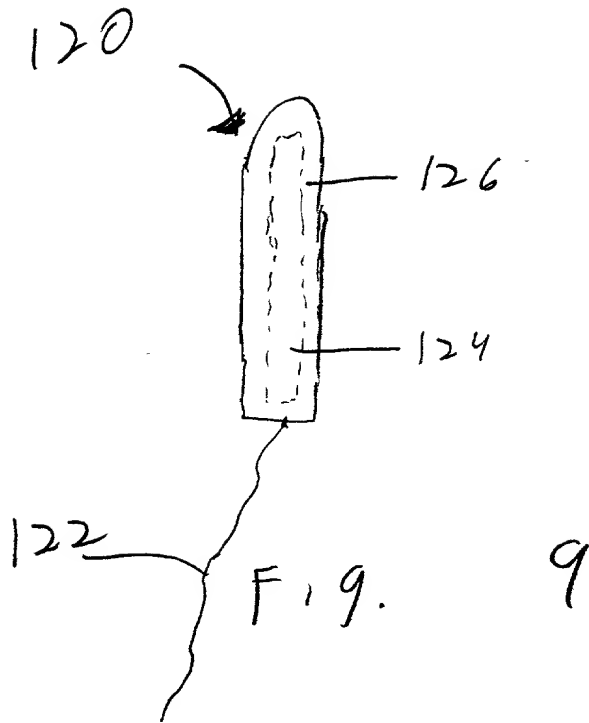


Fig. 10